



## 0 to 82.5 dB Push Button Step Attenuator, BNC Female to BNC Female Rated to 1 Watt Up to 750 MHz

### RF Step Attenuators Technical Data Sheet

PE70A1021

#### Features

- 0.5, 1, 2, 3, 6, 10, 20, 20, and 20 dB step buttons
- 0 to 82.5 dB Attenuation
- $\pm 0.3$  dB or 1% Attenuation Accuracy
- BNC Female Connectors
- $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  Operating Temperature

#### Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

#### Description

The PE70A1021 is a Step Attenuator that has 82.5 dB of total attenuation with 0.5, 1, 2, 3, 6, 10, 20, 20, and 20 dB push button steps, designed across the frequency range of DC to 750 MHz. Select button for desired attenuation level, total attenuation is the sum of all buttons selected. The design is tried and true technology that offers exceptional performance characteristics that include 1.5 dB maximum insertion loss, and a maximum VSWR of 1.4:1. The design also features excellent attenuation accuracy with  $\pm 0.3$  dB or 1% whichever is greater. The Nickel plated Brass package has BNC Female connectors, and operates within the temperature range of  $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		750	MHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Attenuation Value		0 to 82.5		dB
Step Type		Push Button		
Accuracy Statement	$\pm 0.3$ dB or 1% (Whichever is greater)			
Input Power			1	Watts
Input Power, Peak 1 $\mu\text{sec}$ PW, 1% DC			100	Watts
VSWR			1.4:1	

#### Mechanical Specifications

<b>Size</b>	
Length	6 in [152.4 mm]
Width	1.84 in [46.74 mm]
Height	1.25 in [31.75 mm]
Weight	0.752 lbs [341.1 g]
Body Material and Plating	Brass, Nickel

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0 to 82.5 dB Push Button Step Attenuator, BNC Female to BNC Female Rated to 1 Watt Up to 750 MHz PE70A1021](#)



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### Connectors

Description	Connector 1	Connector 2
Type	BNC Female	BNC Female

### Environmental Specifications

#### Temperature

Operating Range

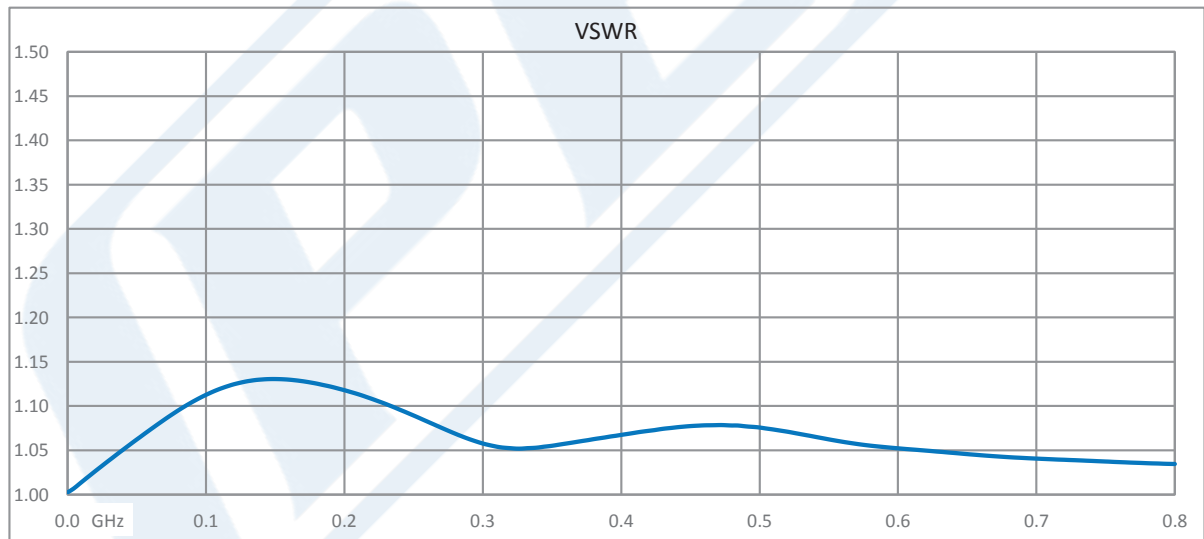
-40 to 70 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### Typical Performance Data



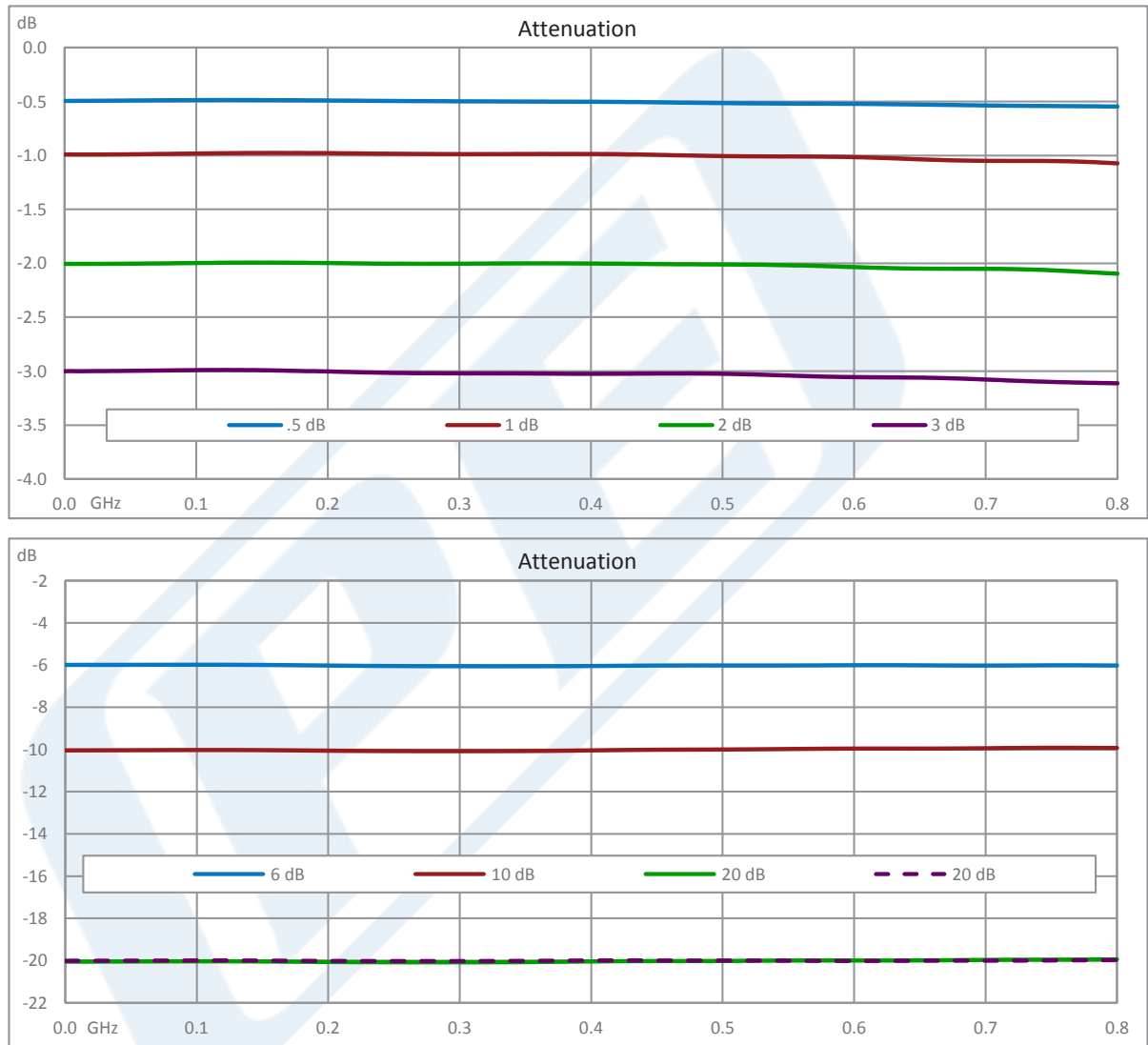
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0 to 82.5 dB Push Button Step Attenuator, BNC Female to BNC Female Rated to 1 Watt Up to 750 MHz PE70A1021](#)



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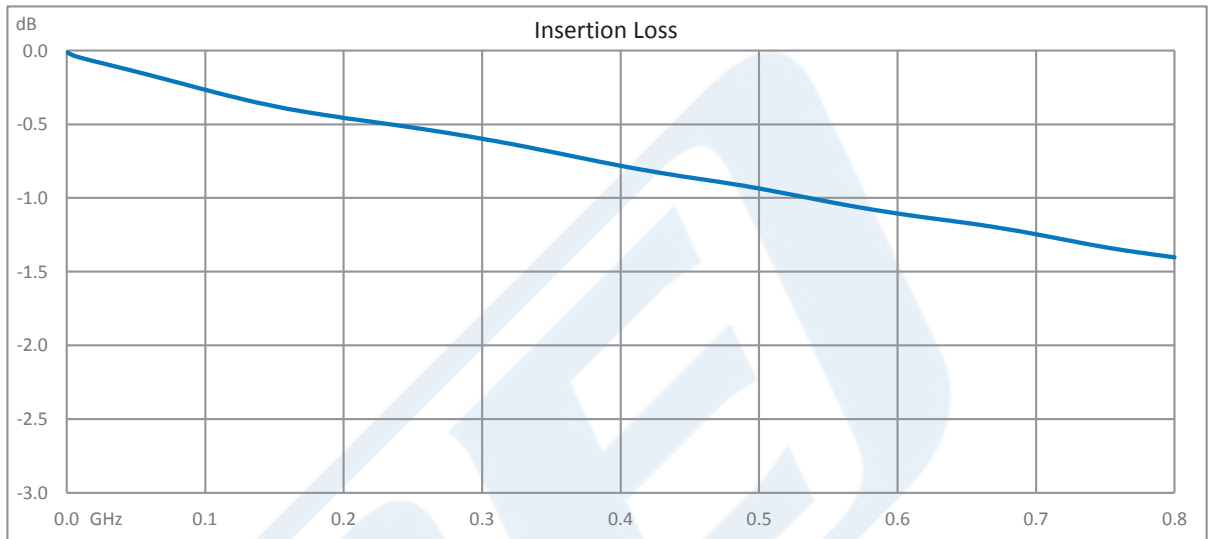
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0 to 82.5 dB Push Button Step Attenuator, BNC Female to BNC Female Rated to 1 Watt Up to 750 MHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/82.5db-step-bnc-female-bnc-female-1-watt-attenuator-pe70a1021-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

PE70A1021

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CAGE CODE 53919

**CAD FILE**      **021417**

**SIZE A**

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